

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-03 11:57:10
Date of Next Testing: 2026-12-02 11:57:10
Product Name: **Manganese carbonate**
CAS Number: 598-62-9
Specifications & Purity: Analytical Reagent
Lot #: K2229920
SKU #: **M111694**
Analysis: **146786**

Parameter	Limit Values	Result
Nitrogen by Elemental Analysis	0-0.1 (%)	0.03 %
Iron(Fe)	0-0.003 (ppm)	0.00 ppm
Insoluble matter in HNO ₃	0-0.1 (%)	0.04 %
Alkali and alkali earth metals	0-0.1 (%)	0.02 %
Sulfate(SO ₄ ²⁻)	0-0.1 (%)	0.03 %
Zinc(Zn)	0-0.02 (%)	0.02 %
Chloride (Cl ⁻)	0-0.05 (%)	0.03 %
Heavy metal (as Pb)	0-0.002 (ppm)	0.00 ppm
Assay(Mn)	47-100 (%)	47.00 %
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager